



For Revised Syllabus Session 2024-25

# NCERT *Solutions* CHEMISTRY

Chapter 3 : Coal and Petroleum

Class  
**8**



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## CHAPTER – 3

### Coal and Petroleum

#### **Question – 1**

What are the advantages of using CNG and LPG as fuels?

#### **Answer:**

The advantages of using CNG (Compressed Natural Gas) and LPG (Liquefied Petroleum Gas) as fuels are listed below:

- (a) They are more efficient than fossil fuels.
- (b) They can be easily transported either through cylinders or through pipelines.
- (c) They are less polluting than other fossil fuels.
- (d) They are clean fuels and do not give smoke when burnt.
- (e) They give a lot of heat energy when burnt.

#### **Question – 2**

Name the petroleum product used for surfacing of roads.

#### **Answer:**

Bitumen, a petroleum product, is used for surfacing roads instead of coal-tar.

### **Question – 3**

Describe how coal is formed from dead vegetation. What is this process called?

### **Answer:**

When the dead remains of plants, due to natural processes like storms, floods, and earthquakes, got buried under the earth millions of years ago. These got compressed as more and more soil got deposited over them. Due to intense heat and pressure inside the earth, slowly with time, they turned into coal. The process of conversion of dead remains of plants into coal is called carbonization.

### **Question – 4**

Fill in the banks.

- (a) Fossil fuels are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- (b) Process of separation of different constituents from petroleum is called \_\_\_\_\_.
- (c) Least polluting fuel for vehicles is \_\_\_\_\_.

### **Answer:**

- (a) Fossil fuels are coal, petroleum and natural gas.
- (b) Process of separation of different constituents from petroleum is called refining.
- (c) Least polluting fuel for vehicles is CNG.

## **Question – 5**

Tick True/False against the following statements.

- (a) Fossil fuels can be made in the laboratory. (T / F)
- (b) CNG is more polluting fuel than petrol. (T / F)
- (c) Coke is almost pure form of carbon. (T / F)
- (d) Coal tar is a mixture of various substances. (T / F)
- (e) Kerosene is not a fossil fuel. (T / F)

## **Answer:**

- (a) False
- (b) False
- (c) True
- (d) True
- (e) False

## **Question – 6**

Explain why fossil fuels are exhaustible natural resources.

## **Answer:**

Fossil fuels are present on the earth surface in a limited quantity and the new mineral growth formed from dead remains of animals and plant require millions and millions of years to form under high temperature and pressure conditions. Such extreme conditions cannot be produced in the laboratory. Thus, due to the limited quantity and

time to renew it, we keep fossil fuel into the category of exhaustible natural resources.

### **Question – 7**

Describe characteristics and uses of coke.

#### **Answer:**

Coke is a type of coal. It is a tough, porous and black substance. It is almost pure form of carbon.

The uses of coke are:

- 1) Coke burns much cleaner than coal.
- 2) It provides more energy for the same mass as coal.
- 3) It is used in manufacture of steel and in extraction of many minerals.

### **Question – 8**

Explain the process of formation of petroleum.

#### **Answer:**

Petroleum was formed from dead organisms that got buried in the sea millions of years ago. These dead bodies got covered with layers of sand and clay. Lack of air, high temperature, and high pressure transformed these dead organisms into petroleum and natural gas.

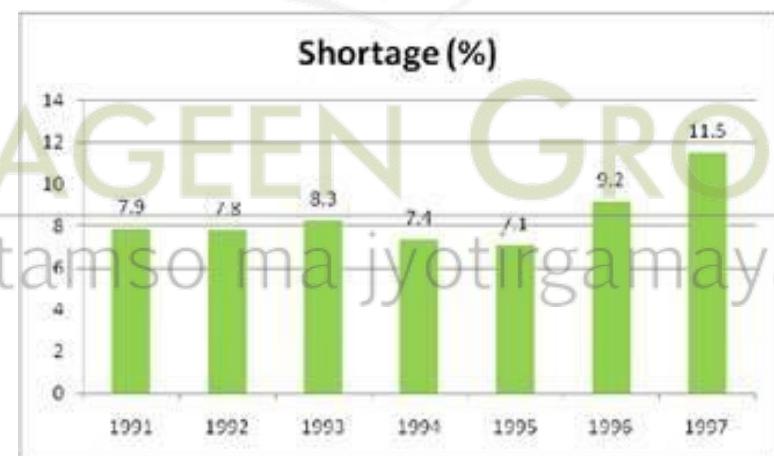
## Question – 9

The following Table shows the total power shortage in India from 1991 – 1997. Show the data in the form of a graph. Plot shortage percentage for the years on the Y-axis and the year on the X-axis.

S. No.	Year	Shortage (%)
1	1991	7.9
2	1992	7.8
3	1993	8.3
4	1994	7.4
5	1995	7.1
6	1996	9.2
7	1997	11.5

**Answer:**

We show the data in from of a bar graph.



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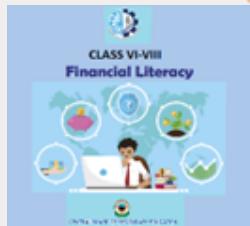
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Design Thinking & Innovation



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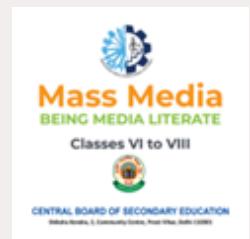
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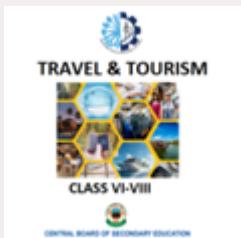
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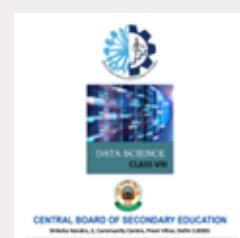
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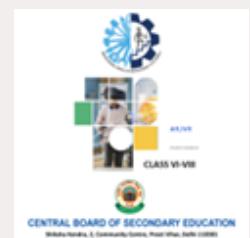
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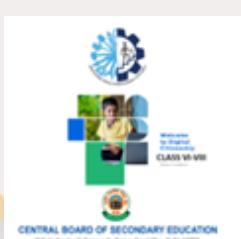
Coding



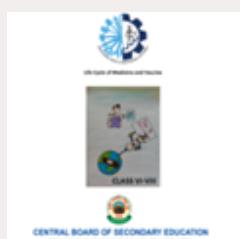
Data Science (Class VIII only)



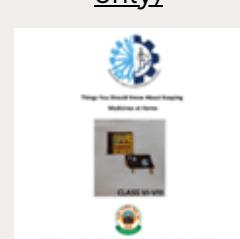
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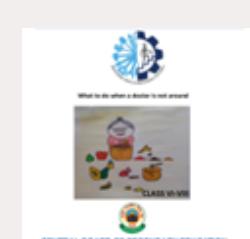
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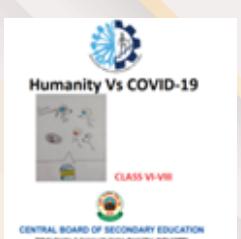
Life Cycle of Medicine & Vaccine



Things you should know about keeping Medicines at home



What to do when Doctor is not around



Humanity & Covid-19



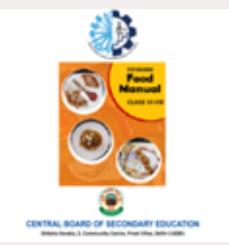
Blue Pottery



Pottery



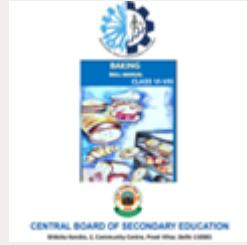
Block Printing



Food



Food Preservation



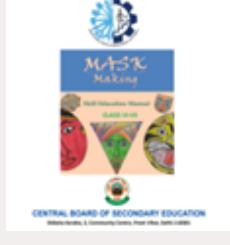
Baking



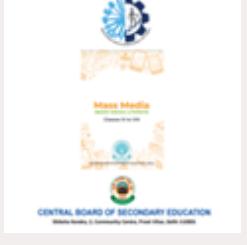
Herbal Heritage



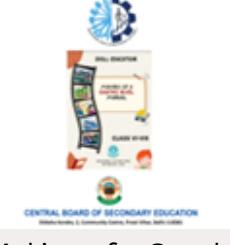
Khadi



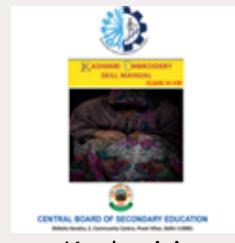
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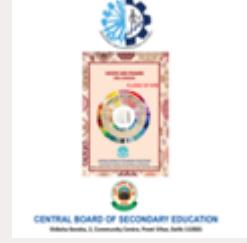
Mass Media



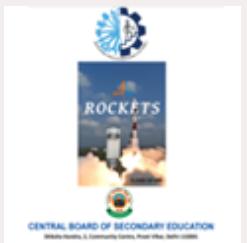
Making of a Graphic Novel



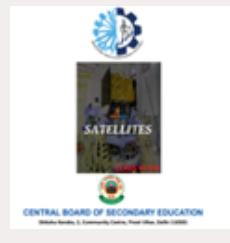
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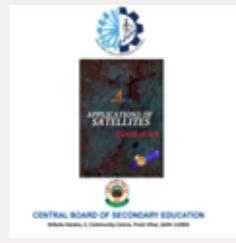
Embroidery



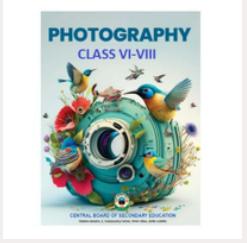
Rockets



Satellites



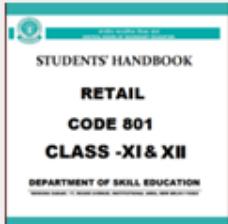
Application of Satellites



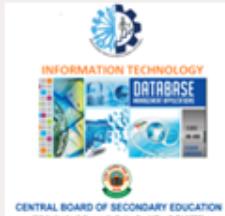
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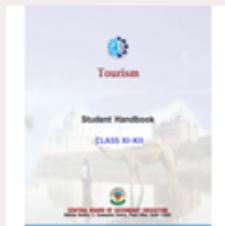
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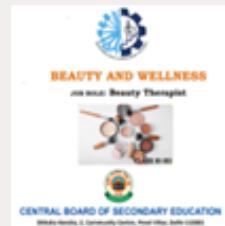
Automotive



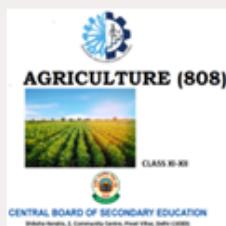
Financial Markets Management



Tourism



Beauty & Wellness



Agriculture



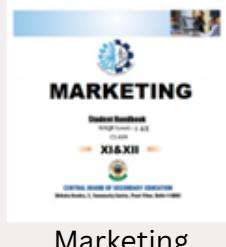
Food Production



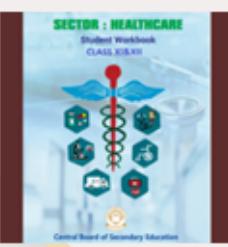
Front Office Operations



Banking



Marketing



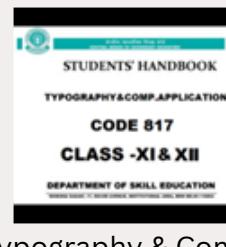
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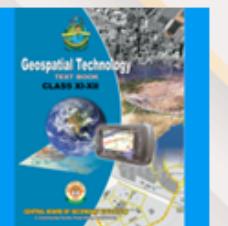
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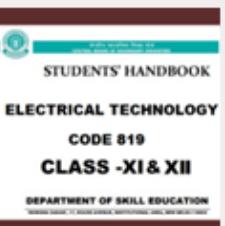
Horticulture



Typography & Comp.  
Application



Geospatial Technology



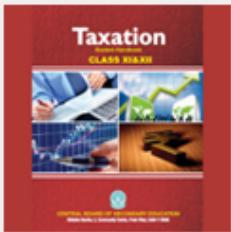
Electrical Technology



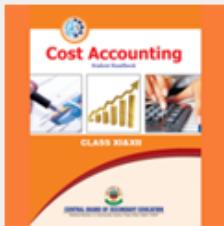
Electronic Technology



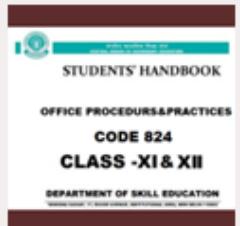
Multi-Media



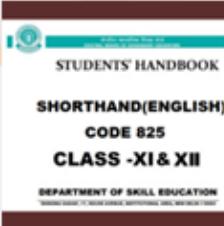
Taxation



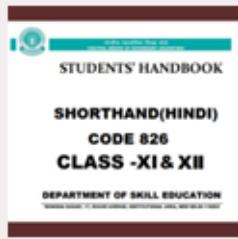
Cost Accounting



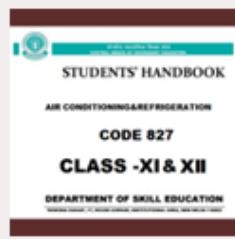
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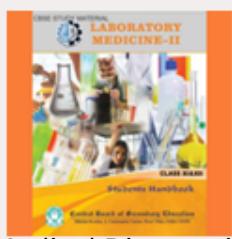
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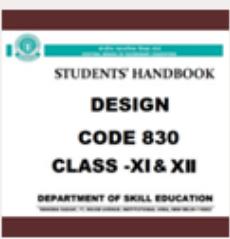
Air-Conditioning & Refrigeration



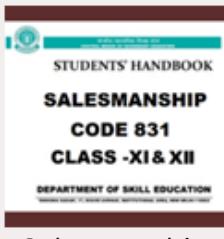
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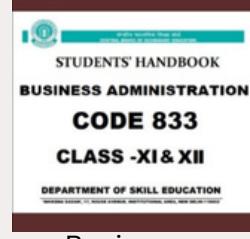
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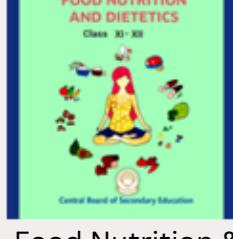
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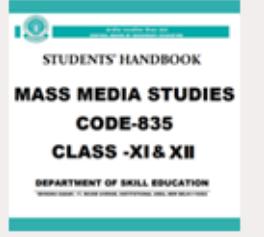
Salesmanship



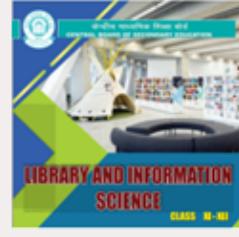
Business Administration



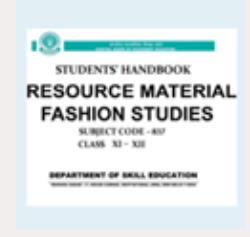
Food Nutrition & Dietetics



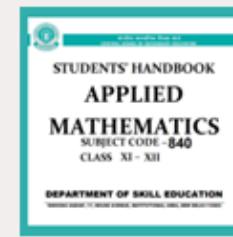
Mass Media Studies



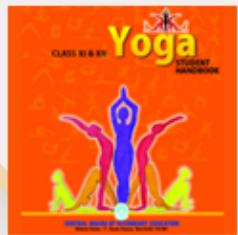
Library & Information Science



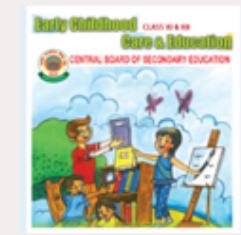
Fashion Studies



Applied Mathematics



Yoga



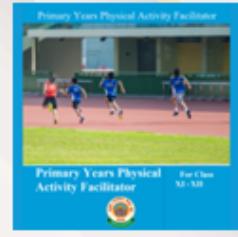
Early Childhood Care & Education



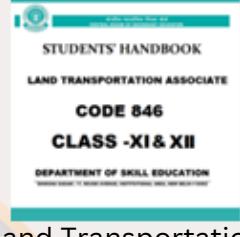
Artificial Intelligence



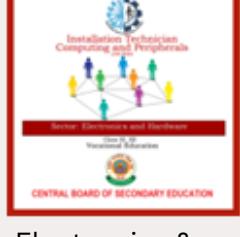
Data Science



Physical Activity Trainer (new)



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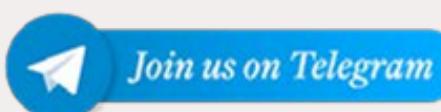
**Artifical intelligence**



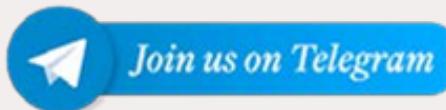
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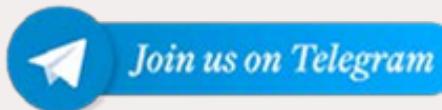
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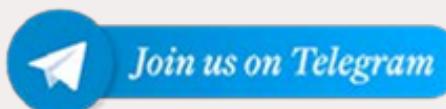
All classes



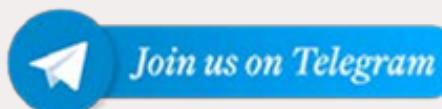
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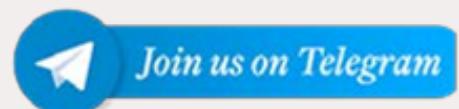
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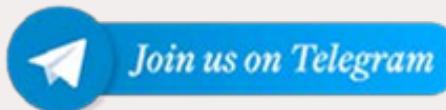
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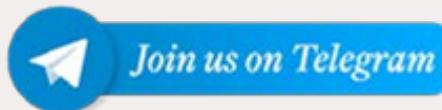
Class 4



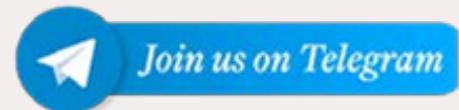
Class 5



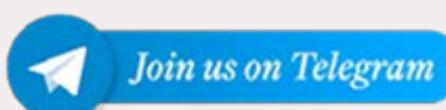
Class 6



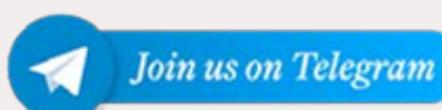
Class 7



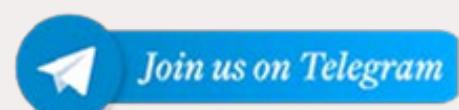
Class 8



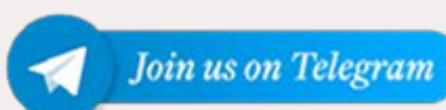
Class 9



Class 10



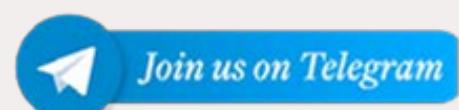
Class 11 (Sci)



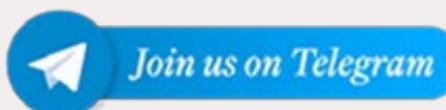
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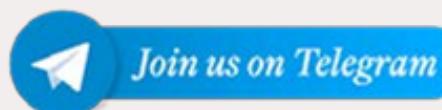
Class 11 (Hum)



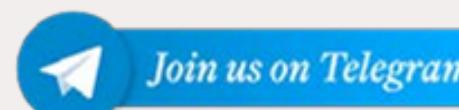
Class 12 (Sci)



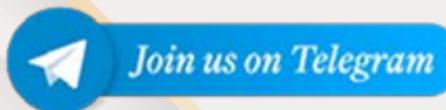
Class 12 (Com)



Class 12 (Hum)



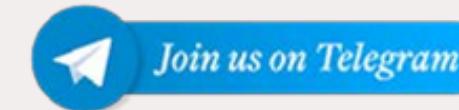
JEE/NEET



CUET



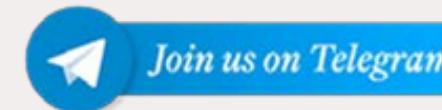
NDA, OLYMPIAD, NTSE



Principal Professional Group

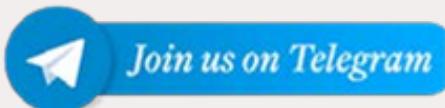


Teachers Professional Group

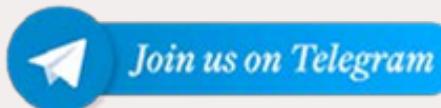


Project File Group

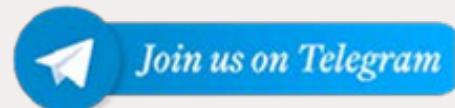
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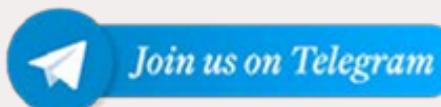
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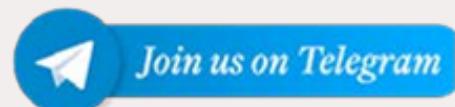
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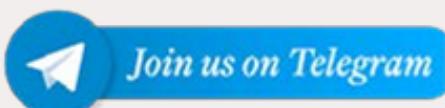
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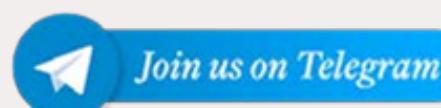
Class 4



Class 5



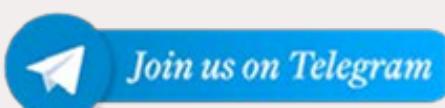
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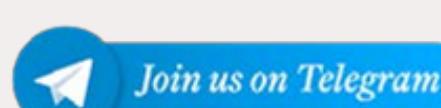
Class 7



Class 8



Class 9



Class 10



Class 11 (Sci)



Class 11 (Com)



Class 11 (Hum)



Class 12 (Sci)



Class 12 (Com)

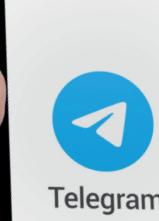


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